HOUSE PRICE PROJECT RESULTS

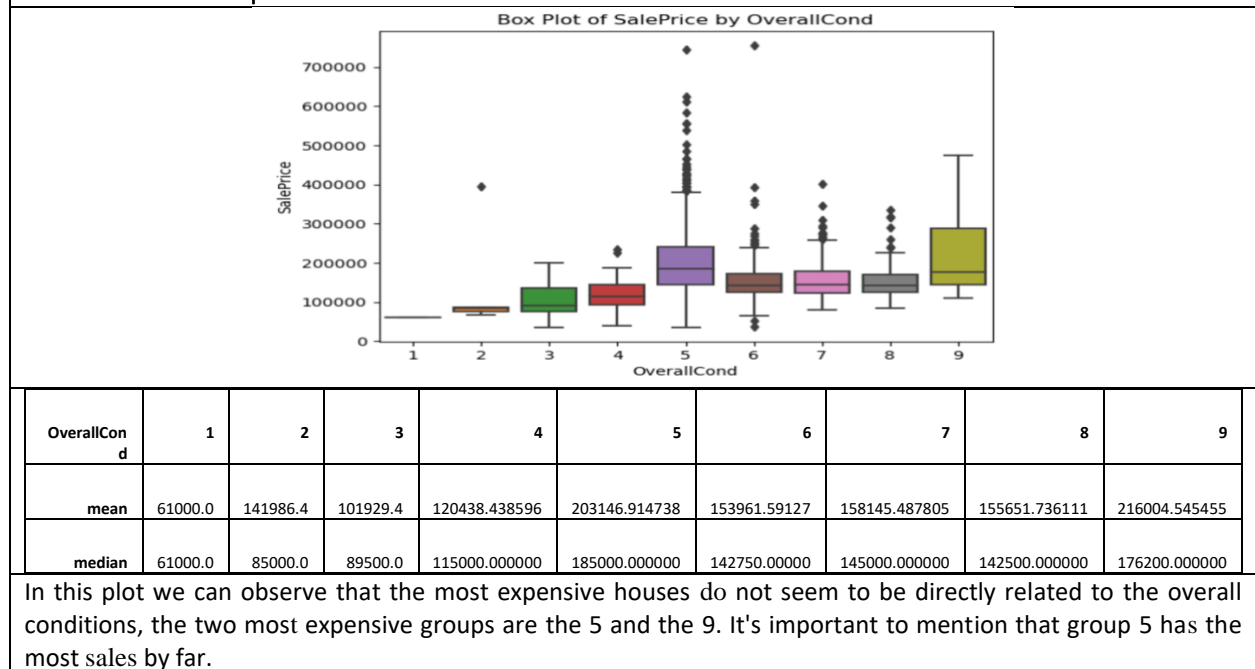| Variables	
MSZone	Identifies the general zoning classification of the sale.
LotArea	Lot size in square feet
LotShape	General shape of property
OverallCond	Rates the overall condition of the house
YrSold	Year Sold (YYYY)
SalePrice	Price of the sale

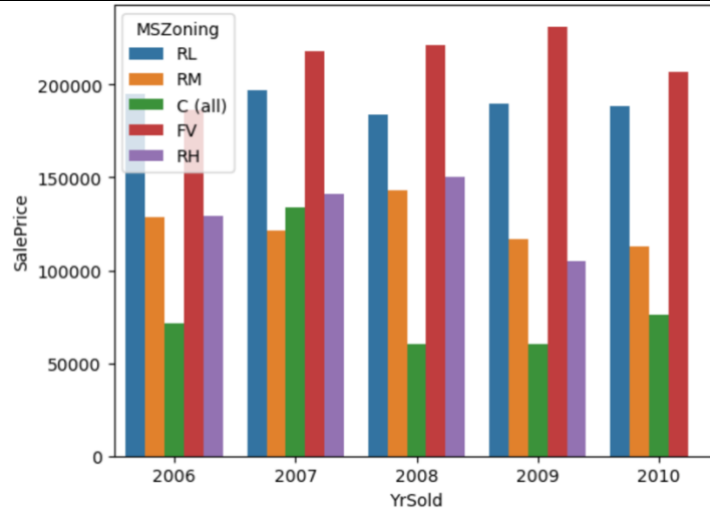*for more detailed information, review the description document in the Data folder.*

1. Relationship between Lot Area Vs Sale Price

	LotArea	SalePrice
LotArea	1.000000	0.376477
SalePrice	0.376477	1.000000

The correlation shows us that there is a positive correlation between Sale Price and Lot Area, but it is not strong.
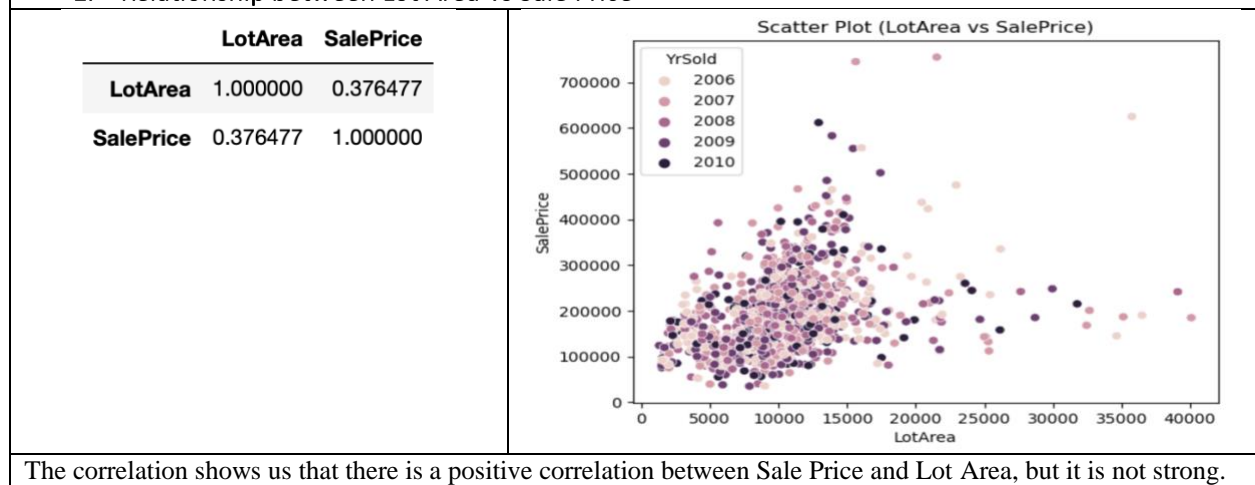
2. Relationship between Overall Cond vs Sale Price

OverallCond	1	2	3	4	5	6	7	8	9
mean	61000.0	141986.4	101929.4	120438.438596	203146.914738	153961.59127	158145.487805	155651.736111	216004.545455
median	61000.0	85000.0	89500.0	115000.000000	185000.000000	142750.00000	145000.000000	142500.000000	176200.000000

In this plot we can observe that the most expensive houses do not seem to be directly related to the overall conditions, the two most expensive groups are the 5 and the 9. It's important to mention that group 5 has the most sales by far.
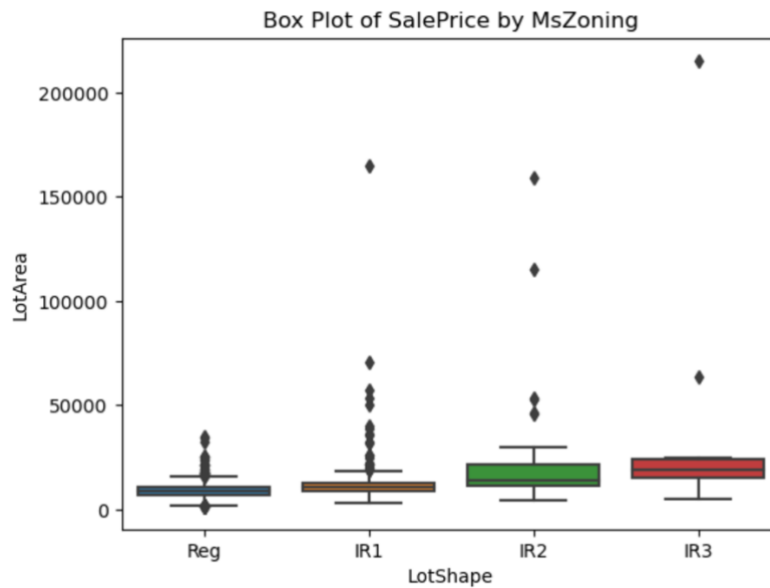
3. Relationship between Sale Prices and MSZoning through YearsSold

In this plot, we can notice that the sale prices were maintained similar through the years of selling, also, we can observe that the MSZones are constant with the prizes, except for C(all) in 2007.

4. Relationship between Lot Shape vs Lot Area

LotShape	IR1	IR2	IR3	Reg
mean	11894.545455	23733.658537	41338.2	8876.915676
median	10638.000000	13682.000000	19078.0	8800.000000

In the graph, we can see that the regular lots are the smallest. Also, we can notice that the outliers are affecting the mean in the IR2 and IR3 types of lots.